

United States Patent and Trademark Office

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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/047,051 01/14		4/2002	Garry Anthony Mercaldi	3364.5US (96-1135.4)	5851	
24247	7590	04/20/2005		EXAM	EXAMINER	
TRASK BRITT				LUND, JEFFRIE ROBERT		
P.O. BOX 2	550					
SALT LAK	E CITY, UT	84110		ART UNIT	PAPER NUMBER	
	,			1763		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Supplemental	10/047,051	MERCALDI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Jeffrie R. Lund	1763	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED) or other appropriate comn IGHTS. This application is	in this application. If not includ nunication will be mailed in due	ded course. THIS
1. This communication is responsive to <u>IDS filed March 21, 2</u>	<u>2005</u> .		
2. The allowed claim(s) is/are <u>1-15</u> .	•		
3. \boxtimes The drawings filed on <u>14 January 2002</u> are accepted by th	ne Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority upon a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have a copies. 2. ☐ Certified copies of the priority documents have a copies. 	e been received.		
Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the re	equirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Revie	ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			e back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the
			•
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PT	⁻ O-152)
Notice of Draftperson's Patent Drawing Review.(PTO-948)	·	Summary (PTO-413),	,
	Paper No	./Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 3/21/05 	J8), 7. ∐ Éxaminer'	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner'	s Statement of Reasons for All	owance

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

of Biological Material

9. Other ____.

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the claims are allowable for the reasons states in the notice of allowance mailed September 24, 2003. Regarding the newly supplied US Patent 5,034,688 to Moulene et al, the Examiner notes Moulene et al does not teach the claimed invention for several reasons.

First, as taught by figure 5 and the specification the heater output is set to heat the wafer from ambient temperature T_a to a temperature $T_c + \Delta T$ at a constant rate of 0.5°C/min.

Second, when the temperature of the wafer reaches T_c + ΔT the controller activates a cooler to supply cooling fluid to the heater to cool the heater and lower the temperature of the wafer to a temperature of T_c - ΔT . When the temperature reaches T_c - ΔT the controller stops the flow of the cooling fluid and the temperature of the wafer starts to rise. At the temperatures T_c + ΔT and T_c - ΔT the output is constant.

Therefore, the temperature regulator does not "continuously vary a thermal output of the heater..." as claimed in the claims because, from T_a to $T_c + \Delta T$ and at $T_c + \Delta T$ and $T_c - \Delta T$, the output is constant. Furthermore, the heater of Moulene et al is maintained at a constant output and the variation of temperature is caused by the cooler not by varying the output of the output of the heater, and it is also highly probable that the proper balance between the coolant flow and the heater could be reached to maintain a constant temperature at or near T_c , thus the thermal out put would not vary at all.

2. Any comments considered necessary by applicant must be submitted no later

Statement of Reasons for Allowance."

than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrie R. Lund whose telephone number is (571) 272-1437. The examiner can normally be reached on Monday-Thursday (6:30 am-6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrie R. Lund Primary Examiner Art Unit 1763

JRL 4/16/05